

## **Numerical simulation of rheological, chemical and hydromechanical processes of thrombolysis**

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### **Abstract**

© Published under licence by IOP Publishing Ltd. Mathematical model of clot lysis in blood vessels is developed on the basis of equations of convection-diffusion. Fibrin of the clot is considered stationary solid phase, and plasminogen, plasmin and plasminogen-activators - as dissolved fluid phases. As a result of numerical solution of the model predictions of lysis process are gained. Important influence of clot swelling on the process of lysis is revealed.

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